

## NBS PLUS MANUFACTURER'S PRODUCT PAGE

**Product name:** PUDLO Membrane BW



### Product summary:

Sodium bentonite geotextile waterproofing membrane.

### Product general description:

Sodium bentonite, high-strength, needle-punched geotextile membrane for use in waterproofing and damp-proofing in underground, reinforced concrete structures. The membrane consists of two polypropylene geotextile layers, one woven and one non-woven, enclosing granular sodium bentonite at a minimum weight of 4.8 kg/m<sup>2</sup>. The bentonite is encased within the layers, maintaining equal coverage and protecting it from construction-related damage.

#### Features and benefits:

- A needle-punched, high-strength geotextile system.
- Full surface contact between the impregnated cover layer and the PUDLO concrete ensures that small cracks and surface imperfections are sealed.
- Forms a mechanical bond to poured concrete when cast in situ, remaining in place if settlement of the substrate occurs.
- Self-healing.
- Quick and easy installation (can be installed in all weather conditions).
- Can be used in sprayed concrete applications, secant/ contiguous and sheet-piled design.
- BBA-accredited.

#### Applications:

For all aspects of waterproofing where a Grade 2 or Grade 3 environment is required as part of a single or dual system, recommended in BS 8102:2009. Suitable for post- or pre-applied situations. Can be used in horizontal or vertical applications and is suitable for basement construction, including lift pits, slabs, liner walls, capping beams and service penetrations. Designed to be used in earth-covered roofs, structural slabs, tunnels and property line construction.

### Product specification clause

### Product reference:

[PUDLO Membrane BW](#)

### Product properties:

• Accessories:  
[And]  
[Not required](#)  
[PUDLO Membrane Granules](#)  
[PUDLO Membrane Seal](#)  
[Surestop Adhesive](#)  
[Surestop BWB](#)  
[Surestop SM](#)

**End of product specification clause**

**As standard:**

**Technical characteristics:**

- Roll size: 1100 x 5000 mm.
- Thickness (at 2 kPa): 7.0 mm.
- Tensile strength to EN ISO 10319 (machine direction/ cross direction): 8.0 kN/m / 8.0 kN/m.
- Puncture resistance to EN ISO 12236: 1.5 kN.
- Hydrostatic pressure resistance to ASTM D 5385: 70 m.
- Peel adhesion to concrete (to ASTM D 903): 2.6 kN/m minimum.
- Water permeability:  $<5 \times 10^{-9}$  m/s.
- Hydraulic conductivity to ASTM D 5084:  $1.0 \times 10^{-9}$  cm/s.
- Low temperature flexibility to ASTM D 1970: Unaffected at -32°C.

**Options:**

No optional features

**Approvals:**

- Organisation: British Board of Agreement
  - Standard/ Certificate: 17/5438
  - Details: